



UNITED STATES MARINE CORPS

MARINE CORPS BASE
PSC BOX 20004
CAMP LEJEUNE, NORTH CAROLINA 28542-0004

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BO 6280.1A
BEMD
18 JUL 1994

BASE ORDER 6280.1A

From: Commanding General
To: Distribution List

Subj: INSTALLATION RESTORATION PROGRAM/HAZARDOUS WASTE SITE CLEANUP
IMPLEMENTATION

- Ref: (a) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and Superfund Amendments and Reauthorization Act (SARA) of 1986 (NOTAL)
- (b) 40 CFR Part 300 (NOTAL)
- (c) Navy/Marine Corps Installation Restoration Manual of February 1992 (NOTAL)
- (d) MCO P5090.2 (NOTAL)
-
- (e) Federal Facilities Agreement of 13 February 1991 (NOTAL)
- (f) Department of Defense (DoD) Appropriations Bill 102-154 (NOTAL)

- Encl: (1) Installation Restoration Program Site Listing
- (2) Installation Restoration Program Site Listing Covered by the Federal Facilities Agreement and Under Investigation
- (3) Installation Restoration Program Site Map

1. Purpose. To provide policy, prescribe procedures, and assign responsibilities for the implementation of the Installation Restoration (IR) Program for the cleanup of past hazardous waste sites located in and on the land of the MCB, Camp Lejeune and MCAS, New River complex.

2. Applicability and Scope. This policy and guidance applies to all contractors, DoD agencies, military organizations, and other authorized activities located on the MCB, Camp Lejeune and MCAS, New River complex and applies to all known and discovered hazardous waste sites.

3. Background. The nation's hazardous waste site cleanup program was established by reference (a). Federal regulations promulgated by the Environmental Protection Agency (EPA) to implement the IR Program are found in reference (b). Marine Corps policy, responsibilities, and guidance are found in references (c) and (d). Specific responsibilities for implementation of the IR Program for MCB, Camp Lejeune and MCAS, New River complex are found in reference (e).

4. Discussion ~~the following responsibilities are assigned to the process of defining the~~

a. The Marine Corps uses hazardous materials and produces large quantities of hazardous waste. Lack of stringent legislation in the past led to the acceptable nationwide use of expedient disposal methods that threatened human health and the overall quality of the environment. Past hazardous waste disposal practices included burial, burning, or dumping. Although acceptable at the time, this method has caused long-term problems through release of hazardous pollutants into the soil and groundwater. Nationally, residential and municipal wells have been contaminated by hazardous wastes improperly dumped or buried many years ago. In some cases, residential and commercial developments have been built on old disposal sites resulting in serious human health problems. These environmental and health problems have led to greatly increased national concern regarding past disposal practices.

b. The Department of the Navy established the Navy/Marine Corps IR Program, per the DoD concept plan to identify, evaluate, control, and correct past deficient waste disposal sites and practices. Similar to other Department of ~~the~~ Navy environmental programs, the IR Program is oriented toward compliance with Federal

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and State environmental laws and regulations. The IR Program consists of identifying the presence of hazardous wastes and evaluating effects on the environment, as well as, identifying and programming any required corrective measures.

(1) Preliminary Assessment/Site Inspection (PA/SI). The PA/SI involves an extensive review and evaluation of existing records located at the installation and elsewhere, an examination of the activity's waste disposal history, and identification of any potential or existing groundwater pollution problems at the installation. The PA/SI of MCB, Camp Lejeune was completed in April 1983 by Water and Air Research, Incorporated, under the direction of the Naval Energy and Environmental Support Activity, Port Hueneme, California. Based on information from historical records, aerial photographs, field inspections, and personnel interviews, a total of 77 potentially contaminated sites were identified. Each site was evaluated with regard to contamination characteristics, migration pathways, and pollutant receptors. The study concluded that while none of the sites pose an immediate threat to human health or the environment, 23 sites warrant further investigation to assess potential long-term impacts.

(2) Remedial Investigation/Feasibility Study (RI/FS). A RI/FS verifies problems identified by the PA/SI through physical and/or analytical testing and monitoring of suspected hazardous pollutants. RI/FS studies include, but are not limited to, soil, sediment, surface water, and groundwater sampling and analysis, pollutant characterization, detailed analysis of remedial alternatives, as well as, human and environmental health effects potentially induced by a respective IR site. RI/FS studies for the 23 sites at MCB, Camp Lejeune, as identified for further investigation by the PA/SI, are being conducted by a private contractor through the Atlantic Division, Naval Facilities Engineering Command. Both the PA/SI studies and RI/FS studies are funded from Defense Environmental Restoration Account (DERA) funds managed by the Naval Facilities Engineering Command (NAVFACENGCOM).

(3) Remedial Design/Remedial Action (RD/RA). The RI/FS study may indicate the need for remedial actions. First priority will be given to remedial actions to control contamination migrating from Marine Corps property when such migration poses an immediate threat to human health at the installation or within adjacent community. Remedial actions will be programmed utilizing DERA funds.

c. Marine Corps policy, under references (c) and (d), is to comply with local, State, and Federal regulations concerning investigation and remediation of hazardous waste sites. This Order implements the IR Program to determine where hazardous wastes have been deposited in the past, assess the present and future environmental and health effects of the wastes, and provide for control measures and remediation.

d. Reference (b) establishes significant requirements for Federal Facilities. It defines the process for the identification, evaluation, and remediation of past hazardous waste sites under reference (a).

e. This Order formally establishes the IR Program for MCB, Camp Lejeune and MCAS, New River complex per references (a), (b), (c), (d), and (e).

5. Action

a. The AC/S, Environmental Management is assigned responsibility for implementation of the IR Program at MCB, Camp Lejeune. The Director, IR Division is designated the installation point of contact to establish, direct, maintain, and coordinate the MCB, Camp Lejeune and MCAS, New River complex, IR Program. The IR Division Director will coordinate accomplishment of specific tasks with the Environmental Compliance Division, EMD; the Environmental Planning Division, EMD; the Office of the Staff Judge Advocate; Public Affairs Office; Eastern Area Counsel Office; AC/S, Training and Operations; AC/S, Logistics; and AC/S Staff Facilities.

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(2) Performance as the initial Base point of contact for off base inquiries from environmental groups, private citizens, and the media.

d. The Navy ROICC is responsible for:

(1) The management of construction associated with Remedial Actions (RA).

(2) Ensuring that the work is accomplished in accordance with plans and specifications, and in a fashion which protects human health and the environment.

(3) Oversight of procedures to ensure compliance with the Occupational Safety and Health Act regulations (29 CFR 1910), as well as, make necessary revisions to the contractor's Health and Safety Plan.

(4) Ensuring that the approved QA/QC plan is followed, both for implementing the selected alternative and for accomplishing field sampling to verify that cleanup levels are attained.

(5) Contract administration and management between Marine Corps Base, Camp Lejeune and Remedial Action Contractors engaged in remedial designs/actions.

Because the RA has been agreed on in consultation with regulatory agencies, the ROICC cannot make contract modifications or field changes without having first coordinated them through the Installation Restoration Division Director.

Before the completion of the contract/delivery order, the constructed remedial system must be jointly inspected by representatives from the IR Division and the ROICC office.

e. All organizations charged with planning or implementing construction projects, field activities, and troop training exercises are responsible for coordinating and ensuring that those activities do not affect and are not affected by the IR sites identified in enclosures (1), (2), and (3). This includes the adverse human health effects which may arise from exposure of personnel as well as site disturbance which may exacerbate contamination and/or complicate the remediation process. All such activities in the proximity of identified IR sites should be coordinated with the AC/S, Environmental Management, via the IR Division Director, to ensure protection of human health and to maintain the remedial process. Enclosure (3) is a map identifying the general location of IR Program sites. If any planned activities are in the proximity of any site denoted on enclosure (3), the organization planning the activity should contact the IR Division for more detailed site information. After consultation with the IR Division, any planned activity that potentially impacts an IR site, or is to occur within 500 feet of the outer perimeter of an IR site, must be coordinated through the Assistant Chief of Staff, Environmental Management before commencing. Any individual/organization discovering either a previously unidentified hazardous substance, or any buried or abandoned material deemed as suspicious or odd in appearance shall immediately notify the IR Division Director, Environmental Management Department at extension 5068 and secure the site to the extent possible to avoid disturbance of any contaminated material.

6. Concurrence. This Order has been coordinated with and concurred in by the Commanding Generals, II Marine Expeditionary Force; 2d Marine Division; 2d Force Service Support Group; 2d Marine Expeditionary Brigade; and the Commanding Officer, Marine Corps Air Station, New River.


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INSTALLATION RESTORATION PROGRAM
SITE LISTING

<u>Site Number</u>	<u>Location Description</u>
1	French Creek Liquids Disposal Area
2	Former Nursery/Day-Care Center
3	Old Creosote Plant
4	Sawmill Road Construction Debris Dump
5	Piney Green Road
6	Storage Lots 201 and 203
7	Tarawa Terrace Dump
8	Flammable Storage Warehouse, Building TP-451 and TP-452
9	Fire Fighting Training Pit at Piney Green Road
10	Original Base Dump
11	Pest Control Shop
12	EOD (G-4)
13	Golf Course Construction Dump Site
14	Knox Area Rip-Rap
15	Montford Point Dump Site (1948-1958)
16	Montford Point Burn Dump (1958-1972)
17	Montford Point Area Rip-Rap
18	Watkins Village (E) Site
19	Naval Research Lab Dump
20	Naval Research Lab Incinerator
21	Transformer Storage Lot 140
22	Industrial Area Tank Farm
23	Roads and Grounds, Building 1105
24	Industrial Area Fly Ash Dump
25	Base Incinerator
26	Coal Storage Area
27	Naval Hospital Area Rip-Rap
28	Hadnot Point Burn Dump
29	Base Sanitary Landfill
30	Sneads Ferry Road -- Fuel Tank Sludge Area
31	Engineering Stockade -- G4 Range Road
32	French Creek
33	Onslow Beach Road
34	Ocean Drive
35	Camp Geiger Area Fuel Farm
36	Camp Geiger Area Dump Near Sewage Treatment Plant
37	Camp Geiger Area Surface Dump
38	Camp Geiger Construction Dump
39	Camp Geiger Construction Slab Dump
40	Camp Geiger Area Borrow Pit
41	Camp Geiger Dump Near Former Trailer Park
42	Building 705, BOQ Dump
43	Agan Street Dump
44	Jones Street Dump
45	Campbell Street Underground AVGAS Storage and Adjacent JP Fuel Farm at Air Station
46	Marine Corps Air Station Main Gate Dump
47	Marine Corps Air Station Rip-Rap Near Stick Creek
48	Marine Corps Air Station, New River Mercury Dump Site

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ENCLOSURE (1)

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INSTALLATION RESTORATION PROGRAM
SITE LISTING COVERED BY THE
FEDERAL FACILITIES AGREEMENT
AND UNDER INVESTIGATION

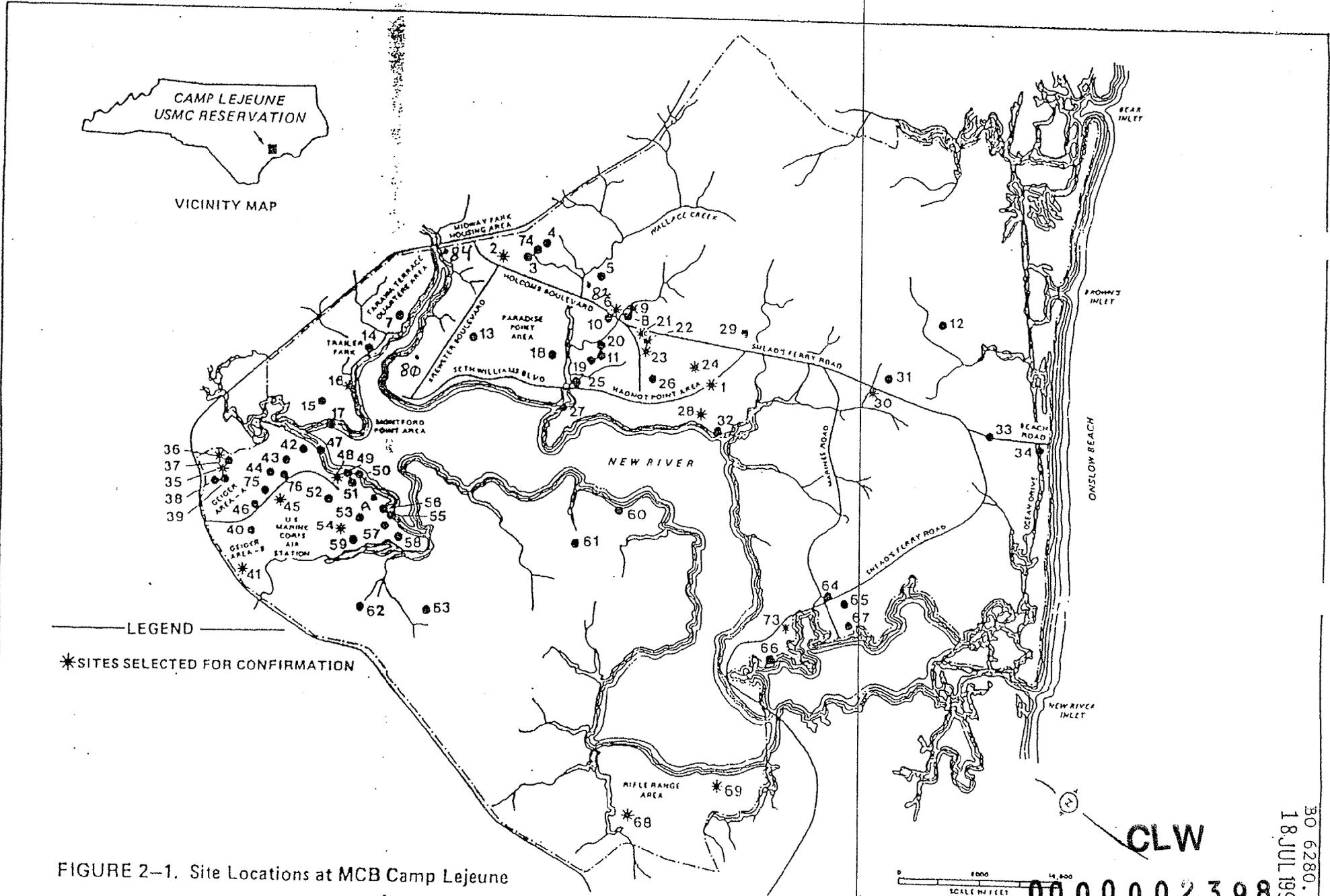
<u>Site Number</u>	<u>Location Description</u>
1	French creek Liquids Disposal Area
2	Former Nursery/Day-Care Center
6	Storage Lots 201 and 203
9	Fire Fighting Training Pit at Piney Green Road
16	Montford Point Burn Dump (1958-1972)
21	Transformer Storage Lot 140
22	Industrial Area Tank Farm
24	Industrial Area Fly Ash Dump
28	Hadnot Point Burn Dump
30	Sneads Ferry Road Fuel Tank Sludge Area
35	Camp Geiger Area Fuel Farm
36	Camp Geiger Area Dump Near Sewage Treatment Plant
41	Camp Geiger Dump Near Former Trailer Park
45	Campbell Street Underground AVGAS Storage an Adjacent JP Fuel Farm at Air Station
48	Marine Corps Air Station, New River Mercury Dump Site
54	Crash Crew Fire Training Burn Pit
68	Rifle Range Dump
69	Rifle Range Chemical Dump
73	Courthouse Bay Liquids Disposal Area
74	Mess Hall Grease Pit Area
75	Marine Corps Air Station Basketball Court Site
76	Marine Corps Air Station Curtis Road Site
78	Hadnot Point Industrial Area
A	Marine Corps Air Station (H) Officer's Housing Area
83	Camp Johnson Battery Dump
84	Building 45 Area

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ENCLOSURE (2)

INSTALLATION RESTORATION PROGRAM SITE MAP

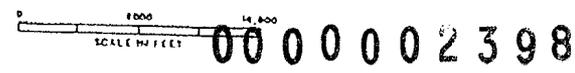


VICINITY MAP

LEGEND

*SITES SELECTED FOR CONFIRMATION

FIGURE 2-1. Site Locations at MCB Camp Lejeune



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